

# Enjoy Riding



NS-NFAT20S900-MB-XXX

NS-NFAT20S900-MBL-XXX

NS-NFAT20S900-CM-XXX

(XXX represents any alphanumeric character)

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## Carton Contents

- |                          |                          |
|--------------------------|--------------------------|
| (x1) Bike                |                          |
| (x1) Lithium Ion Battery |                          |
| (x1) Battery Charger     | (x1) Headlight           |
| (x1) Kit Box             | (x2) Keys                |
| (x2) Pedals              | (x1) Tool Kit            |
| (x1) Saddle              | (x1) Reflector           |
|                          | (x1) Owner's user Manual |

# ELECTRIC BIKES

First of all, we would like to thank you for choosing our electric bike. We believe this technology, with the benefits of electric propulsion, provides you with the perfect vehicle to increase your mobility.

Our brush-less electric hub motor allows you to run errands or commute to work while saving money on gas and reducing your environmental impact on our world. It also allows you to pedal if you want to get exercise along the way.

All this and it is just plain fun to ride!

If you have any concerns, questions, or suggestions about the electric bike, please contact us at the website where you bought the bike firstly, we will always do our best to serve you.

## **PLEASE NOTE:**

**THIS MANUAL IS NOT INTENDED AS A DETAILED USER, SERVICE, REPAIR OR MAINTENANCE MANUAL. PLEASE SEEK ASSISTANCE FROM A QUALIFIED TECHNICIAN FOR SERVICE, REPAIRS OR MAINTENANCE.**

# WARNING

Electric Bikes can be dangerous to use. The user or consumer assumes all risk of personal injuries, damage, or failure of the bicycle or system and all other losses or damages to themselves and others and to any property arising as a result of using the bicycle.

As with all mechanical components, the bicycle is subjected to wear and high stresses. Different materials and components may react to wear or stress fatigue in different ways. If the design life of a component has been exceeded, it may suddenly fail possibly causing injuries to the rider. Any form of crack, scratches, or change of coloring in highly stressed areas indicates that the life of the component has been reached and it should be replaced.

For replacement parts, technical information and warranty assistance, please feel free to contact us.

**YOUR INSURANCE POLICIES MAY NOT PROVIDE  
COVERAGE FOR ACCIDENTS INVOLVING THE USE OF  
THIS BICYCLE. TO DETERMINE IF COVERAGE IS  
PROVIDED YOU SHOULD CONTACT YOUR INSURANCE  
COMPANY OR AGENT.**

**DO NOT DISASSEMBLE, MODIFY  
OR REPLACE ELECTRICAL PARTS.**

# Avertissement

Le vélo électrique est dangereux. Hypothèses de l'utilisateur ou du consommateur

Le risque de lésions corporelles, d'endommagement ou de panne de bicyclette ou de système, ainsi que toutes autres pertes ou dommages causés à soi-même et à d'autres personnes ou à des biens du fait de l'utilisation de bicyclettes.

Comme tous les composants mécaniques, la bicyclette est soumise à l'usure et à des contraintes élevées. Différents matériaux et ingrédients.

De différentes façons, l'usure ou la fatigue par contrainte. Si le composant a dépassé sa durée de vie utile, il risque d'être soudainement neutralisé et de causer des blessures au jockey. Dans les zones à forte contrainte, toute forme de fissure, de rayure ou de changement de couleur indique que le composant a atteint sa durée de vie utile et doit être remplacé.

**VOTRE POLICE D'ASSURANCE NE COUVRE PAS L'ACCIDENT DE BICYCLETTE. POUR DÉTERMINER S'IL Y A UNE ASSURANCE, VOUS DEVEZ CONTACTER VOTRE COMPAGNIE D'ASSURANCE OU VOTRE AGENT.**

**NE PAS DÉMONTER, MODIFIER OU  
REEMPLACER DES COMPOSANTS  
ÉLECTRIQUES**

# Assembling Instruction

## Instruction d'assemblage

### Front Fork Installation

Your Electric bike equips with a front disk brake. Be careful not to damage the disk, caliper, or brake pads when reinserting the disk into the caliper. Never activate a disk brake's control lever unless the disk inserts correctly in the caliper. (The color of the frame in the following pictures is only for reference )

(1) Carefully take your bike out of the carton and gently rest it in place.

(2) Remove all of the inside cardboard protection and bubble wrap on the bike (Figure.1-1).



Figure. 1-1

(3) Please locate and set aside the kit box containing the battery charger, pedals, and tool kit, etc.

(4) Locate the front fork, remove the bolts on the top of the front fork, and remove two rings and a plastic cover (as shown in Figure 2-1), and place them in order (Figure 2-2). Insert the front fork into the frame, pay attention to the wiring harness. As shown in the picture, they need to be placed to prevent the wire harness from being entangled (Figure 2-3).



Figure. 2-1



Figure. 2-2

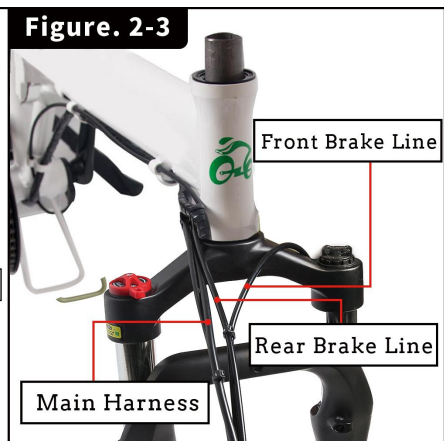


Figure. 2-3

(5) Place the small ring first, the big ring second (Figure 2-4), and press them to the Bottom.

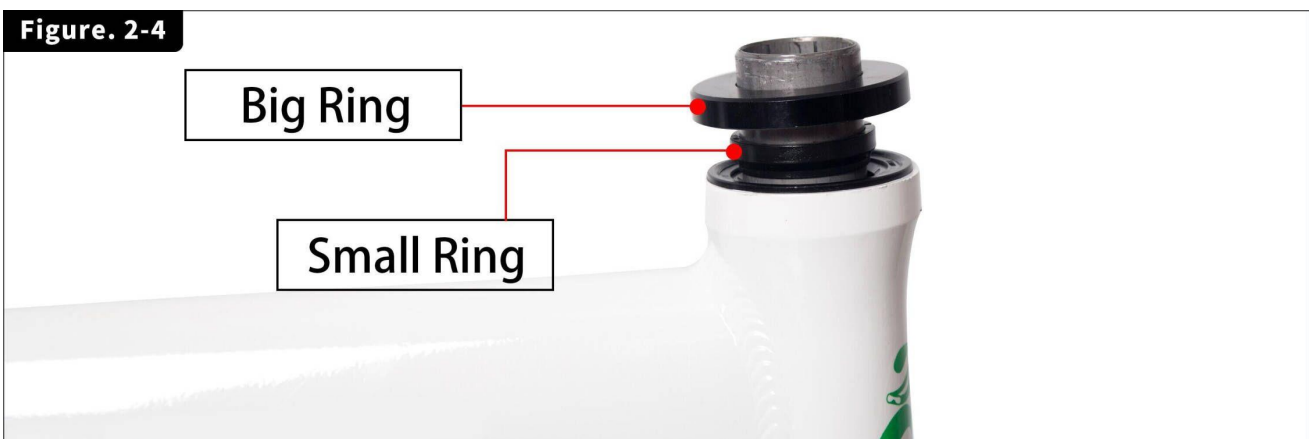
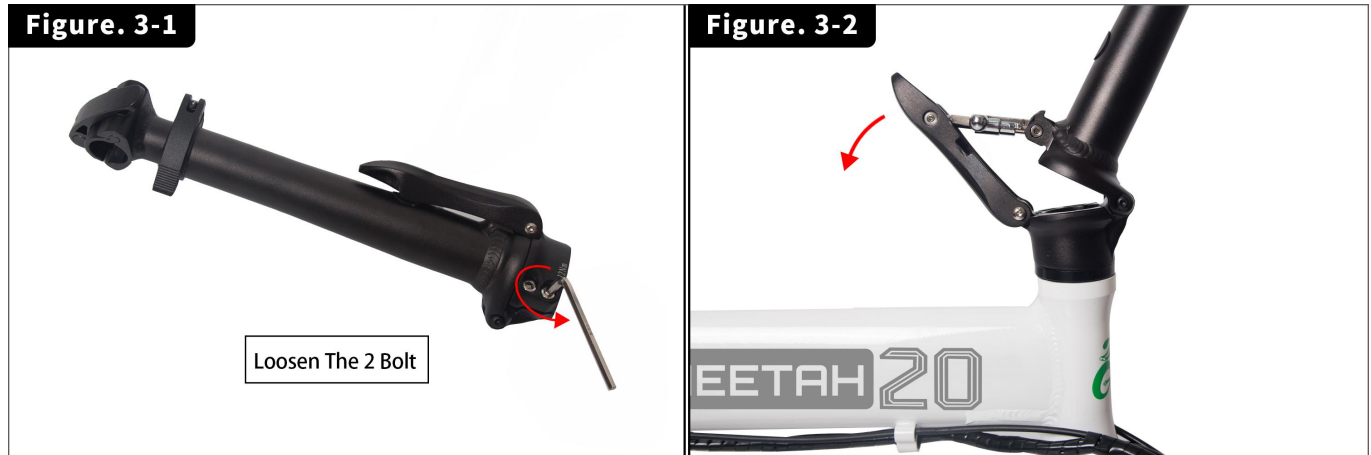


Figure. 2-4

## Stem Installation

Locate the stem, loosen the two screws on the bottom side, but do not remove (Figure 3-1). Mount the stem into the front fork (Note: The two screws just loosened should be on the bike's passenger side). Open the folding handle (Figure 3-2).

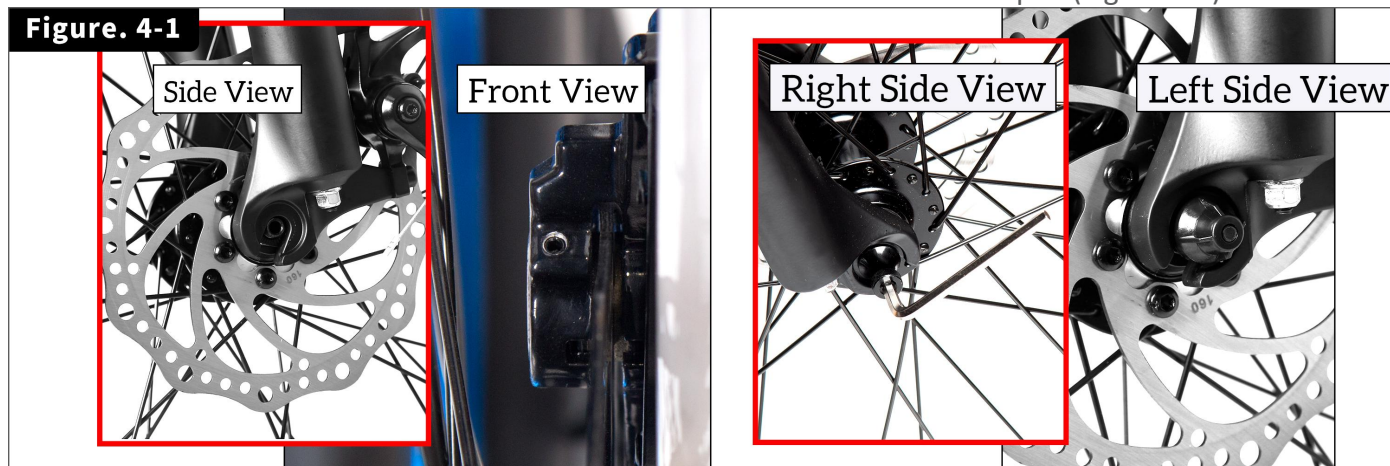


Method: There is a small spherical handle on the side of the handle, pull it to the top, and then pull the handle outward. Fold the stem, and place the plastic cover into it. Tighten the screws (Figure 3-3), then restore the stem to its original state (Figure 3-4).

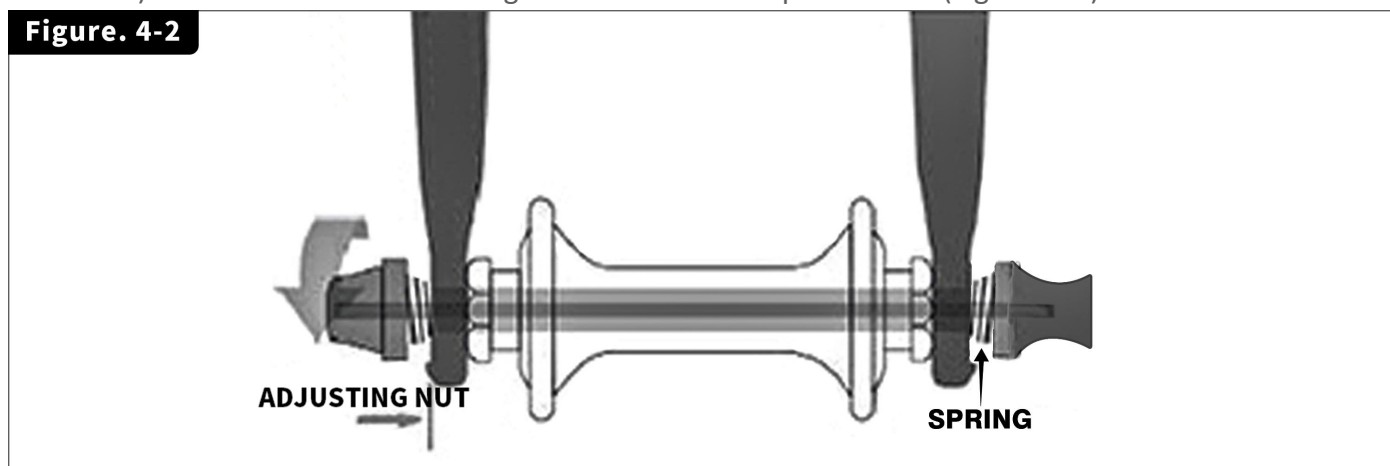


## Front Wheel Installation

1. Locate the front wheel, pull out the rubber protection pad, and remove the quick release axle tied to the spokes. Lift the front fork, and insert the front wheel between the fork blades so that the axle seats firmly at the top of the fork dropouts. (Push the wheel firmly to the top of the slots in the fork dropouts, and center the wheel rim in the fork at the same time). Note: The front fork should set on the thread of the front wheel axle. The disc brake rotor should locate in the center of the brake pad (Figure 4-1).



2. Insert the quick release axle (Note: The small spring heads face the center and one on each side of the wheel). Use the Allen Wrench to tighten the nut of the quick release (Figure. 4-2).





## Handle Bar, Display Installation

Locate the cam lever on the top of the stem, open the cam lever, loosen the nut, and remove the cam lever, slide out the metal cover (Figure 5-1). Place the handlebar into the groove on the top of the stem, slide the metal cover back into the stem (Figure 5-2). Adjust the handlebar to a proper angle that fits you, and tighten the handlebar with the cam lever (Figure 5-3).



The handlebar must keep parallel with the front fork after the handlebar is installed, and the stem should be slightly tilted forward (Figure 5-4) and tighten the two screws that were loosened before (Figure 5-5). Adjust the handlebar's height to the position fit you the best, and please note the min insertion line should not be out of the tube (Figure 5-6).



**WARNING:** It may cause the stem tube to rupture and cause a serious accident if the min insertion line is out of the tube. The customer is responsible for accidents caused by improper installation.

### AVERTISSEMENT:

Si la ligne d'insertion minimale est hors du tube, cela peut provoquer la rupture du tube de tige et provoquer un accident grave. Le client est responsable des accidents causés par une mauvaise installation.

Unscrew the two screws on display, then install the display on the center of the handlebar (the rubber gasket is necessary for this bike), then install the control panel (the buttons) on the driver side of the handle, then connect the quick release connector, it has arrows on both ends of the connector, you can plug the connector easily with aligning arrows (Figure 5-7). Unscrew the bolt on the front of the fork, then install the front reflector.

## Seat Post Installation

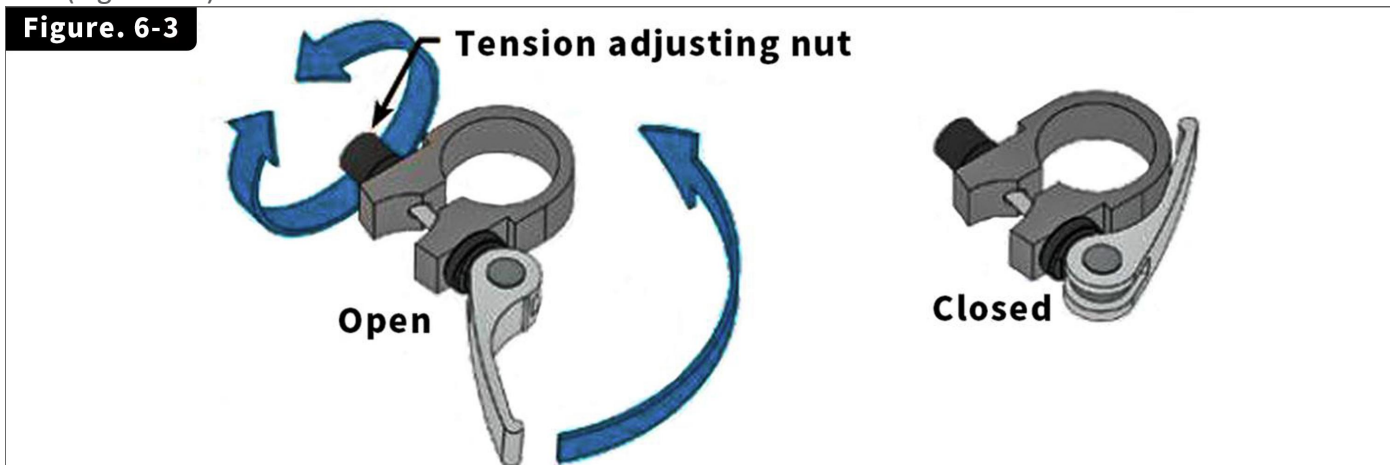
1. Please pay attention to the vertical lines on the seat post; it is the minimum insert line or safety line. Please make sure install the post into the frame deeper than the minimum insertion line. It is at the bottom of the seat post (Figure. 6-1).
2. There is a handle under the seat cushion, push it up to open the seat, so that the battery can be easily removed (Figure. 6-2).



**Warning:** It could break the seat tube during riding if the seat post does not install correctly. **It is not covered by the warranty.**

**Avertissement:** cela pourrait casser le tube de selle pendant la conduite si la tige de selle ne s'installe pas correctement. Elle n'est pas couverte par la garantie.

3. Open the clamp on the seat tube, insert the seat post into the seat tube, adjust the seat to a comfortable height, tighten the tension adjusting nut, and press the clamp lever inward toward the seat tube (Figure. 6-3).



**Please Note:** If necessary, tighten the clamp by twisting the clamp handle clockwise while in the un-clamped position. Then, fold the handle in toward the seat post. This should require a fair amount of force to ensure the seat post is held tight. If necessary, the clamp can be further tightened with a 5 mm Allen wrench while in the clamped position.

**Warning:** The cam lever may be bent if over tighten tension nut when cam lever un-clamped, it is not covered by warranty!

**Attention:** le levier de came peut être plié si vous serrez trop l'écrou de tension lorsque le levier de came est desserré, il n'est pas couvert par la garantie!

## Pedals Installation

### 1. Identify left vs. right pedal

There is an "L" or "R" stamped into the axle (the threaded part that looks like a screw) (Figure. 7-1)

**Please Note:** They are not the same!! Apply a small amount of grease if possible

### 2. Install the left-hand pedal firstly

You will have to screw it in counter-clockwise because the threading is the reverse of a normal screw. Do this by slowly pedaling the cranks backward. If the pedal feels stiff, stop, and then re-try, it should feel like a smooth motion. Please do not use the wrench until you are ready to tighten it for the final few turns. Tighten it down until you can't anymore (Figure. 7-3).

**Please Note:** Hand-tight is not sufficient. Use a tool. If the threads on the crank are stripped after riding, it means the crank needs to replace. It is NOT covered by warranty.

### 3. Install the right-hand pedal

This one threads in clockwise, like a normal screw. Follow the same principals, as discussed in step 2 for the left pedal (Figure. 7-2).



### 4. Wipe off any excess grease from around the crank.

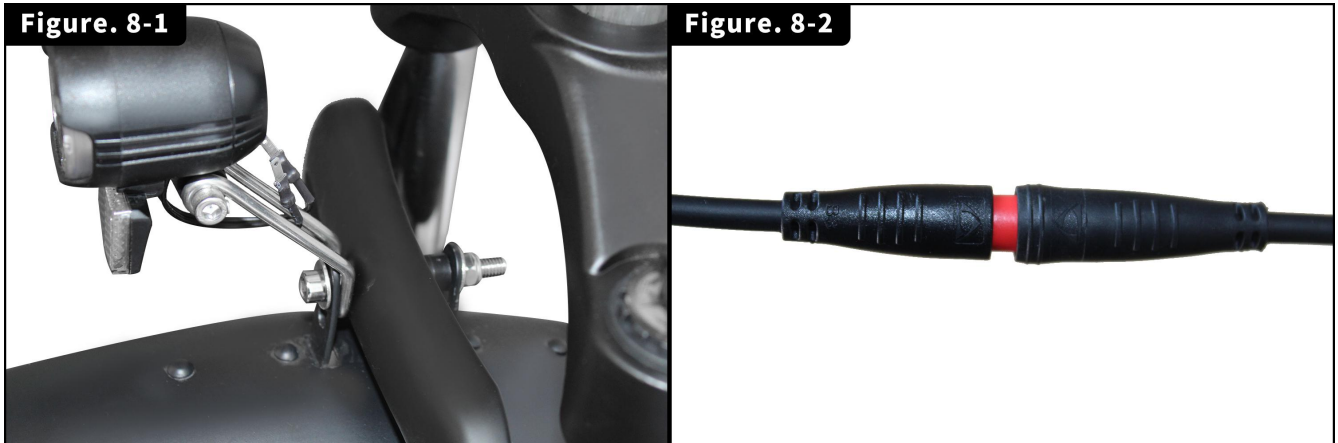
## TORQUE SPECIFICATIONS

Item	N.m
Handlebars	18N.m (Trail Tracker 12N.m)
Handlebar Stem	12N.m (Trail Tracker 8N.m)
Seatpost	Quick Release
Seat	18N.m
Front Wheel	18N.m (If Applicable)
Rear Wheel	30N.m or above

## Front Fender and headlight Installation

Locate the front fender, the front headlight, and the mounting bolt&nut (They were put together with this manual). Mount them to the front fork, as shown in the figure (Figure 8-1). If the bolt is difficult to go through the front fork, you can use an Allen wrench to push it in by tightening the bolt. Place the washer after the bolt comes through the mounting bracket of the fender. Adjust the position of the fender, and tighten the bolt and nut.

Connect the plug on the meter to the headlight plug in the direction of the arrows (Figure 8-2).



## Battery Installation & Removing & Charging

### 1. Remove and install the battery

The key ties to the handle on the battery (Figure. 9-1). If the key is on the "Off" position, push the key in, and turn it to the "Unlock" position (Figure. 9-2), then pull the battery out of the frame. When mounting the battery, you should align the battery and the rail on the frame, and slide the battery into the frame (Figure. 9-3). Then turn the key to the "On" position (Figure. 9-4).



### 2. Introduction of the battery

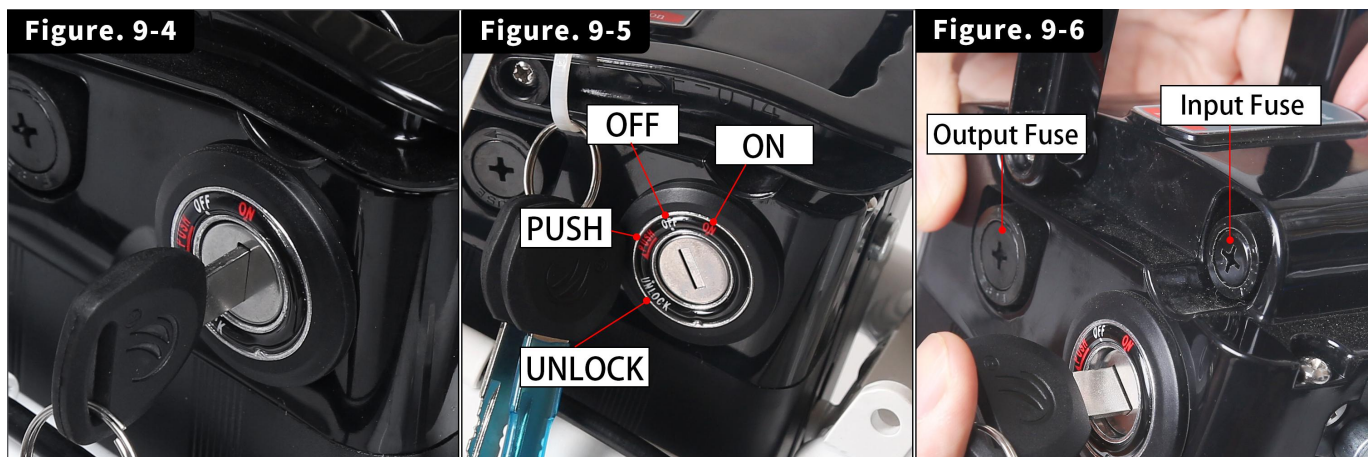
There are three positions on the battery lock.

**"ON"**: The bike is powered on, and the battery locks on the frame. The key cannot be removed at this time.

**"OFF"**: The bike is powered off, but the battery is locked on the frame. The key can be removed at this time.

**"UNLOCK"**: You need to push the key in to turn to this position. The bike is powered off, and the battery is not locked on the bike (Figure 9-5).

**Fuse**: There are two Fuses on the battery. Charging Fuse: 10A, Min. 60Vdc; Discharging Fuse: 30A, Min. 60Vdc. (UL certified Fuse) (Figure 9-6)



(continue to next page)

### 3. Battery Charging

Find the charging port on the battery (Figure. 9-7), connect the charger's plug to the battery charging port first, and then connect the other side plug to the AC outlet (120V).The charger's LED is the red color when charging, and it will turn to green color when the battery is fully charged. It will take 6-8 hours to fully charge the battery. Remember to charge the battery before first riding fully.

**Please note:** Please do not charge the battery indoors, recommend to charge in a cool, ventilated and open space.

There is a small button on the battery, turn on the battery, press and hold the small button, you can see the remaining capacity of the battery (There is one red light + two green lights when fully charged) (Figure. 9-8).

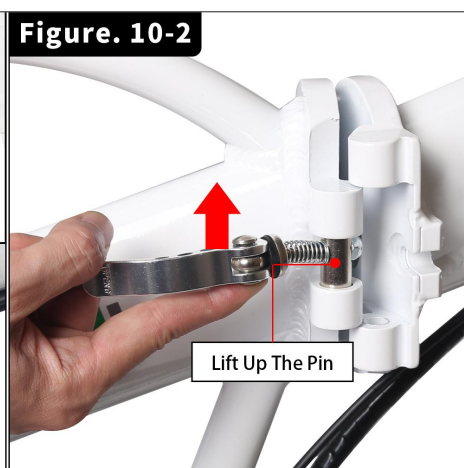
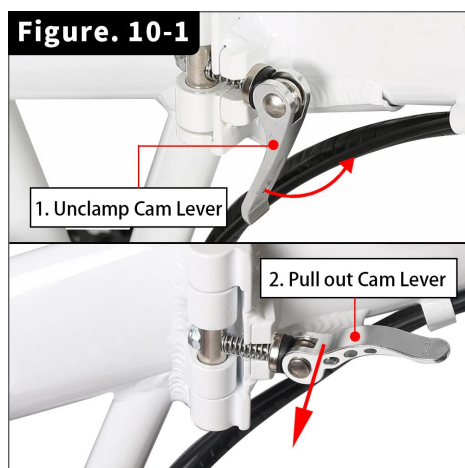


### 4. Battery storage outside of the eBike

If the battery is not used for an extended period, charge it fully and recharge it every two months.Store it in a cool, dry place.

### Folding The bike

Locate the quick-release lever on the frame, open the lever, then pull it out (Figure 10-1). Hold the handle, and lift the pin up (Figure 10-2), then the frame can be folded. Then fold the stem and pedals(Push the pedals in, and then flip them up). The bike is folded (Figure 10-3).



## Operating Instructions/INSTRUCTIONS D'UTILISATION

### 1. Lighting Up The Display

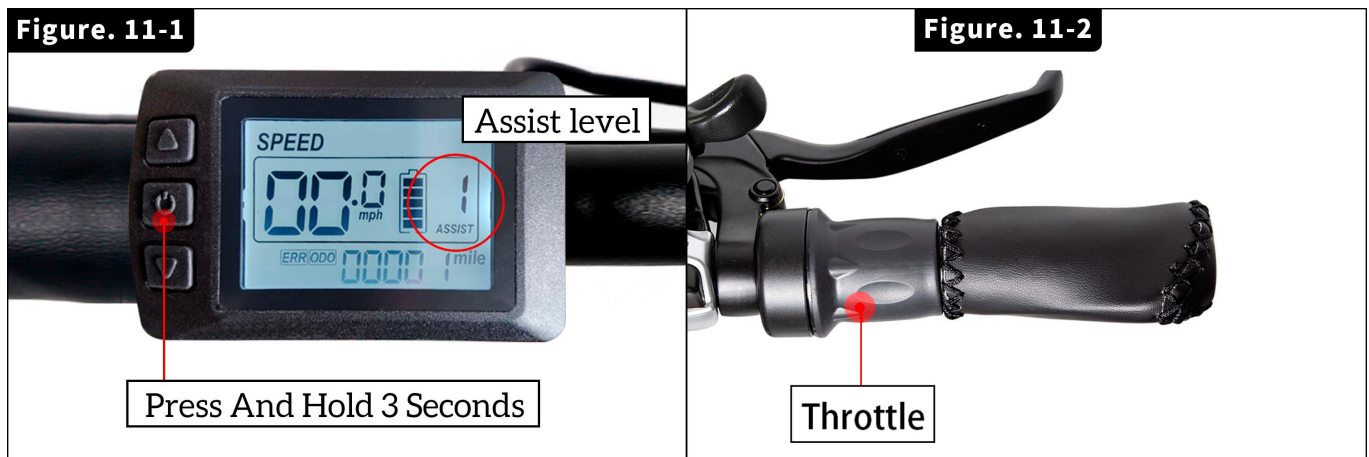
Turn the key to ON position, make sure the battery lock firmly on the frame, and then press the “ ” button on the control panel and hold 3 seconds (Figure. 11-1), the display will light up.

### 2. Testing The Throttle, Pedal Assist, And Walk Assist Mode

The bike has three modes: throttle, pedal-assist, and walk-assist. Please lift the rear wheel, then test them separately.

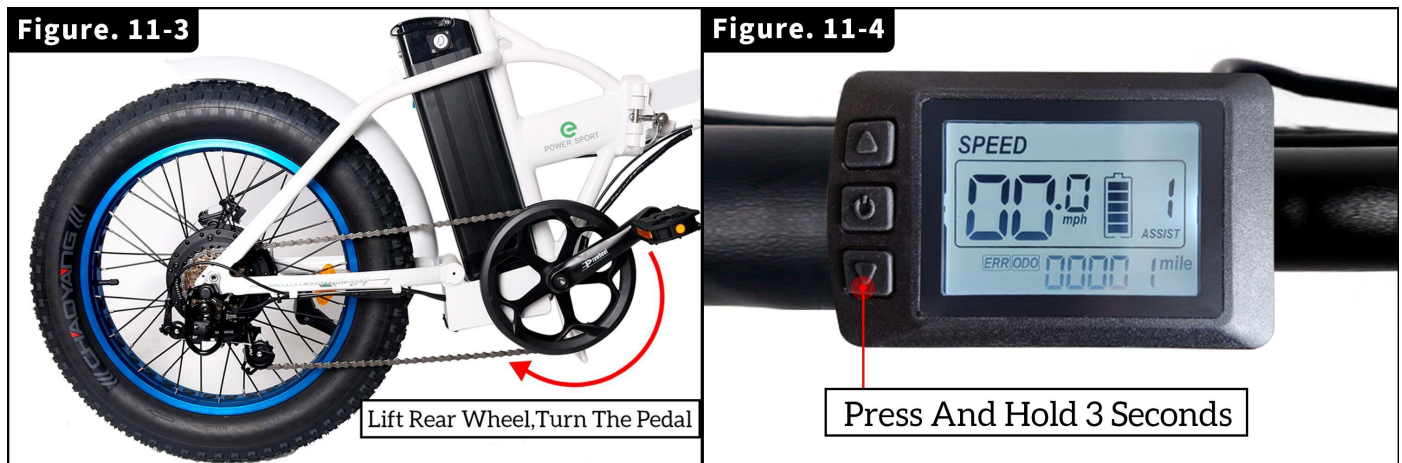
**Please Note:** please make sure the number of the PAS level is bigger than “1” (Figure. 11-1), “0” means no throttle or pedal assist.

A. Throttle: please twist the throttle. It is on the right side of the handlebar(Figure. 11-3).



B. Pedal Assist: please lift the rear wheel and turn the pedal by hand. The motor will work one time once you turn the crank 3/4-cycle (Figure. 11-4).

C. Walk assist: Please hold press the “down” button on the control panel. The bike will go into a walk-assist mode (Figure. 11-5).



### 3. Turn on the headlight

Please hold press the “up” button on the control panel. The headlight will be turn on.

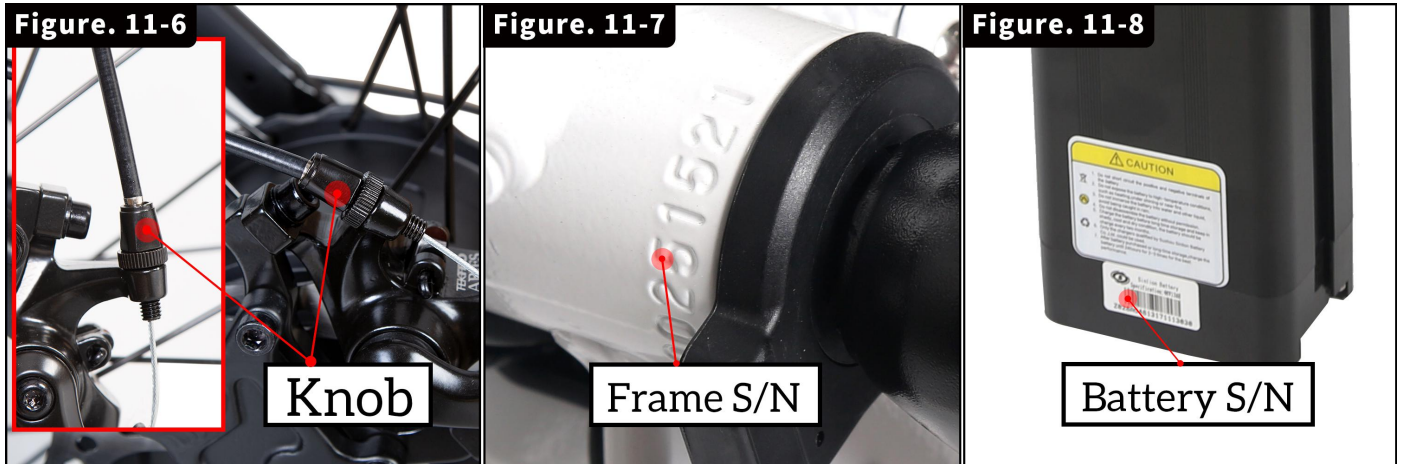
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#### 4. Testing The Brake System

Please hold the two brake levers on both sides of the handlebar, then trying to push the bike forward to make sure the bike is assembled firmly, and brakes can stop the bike properly. **Please Note:** You can adjust the brake cable's tightness lightly by adjusting the knobs on the caliper (Figure. 11-6).

5. Please note the bike's serial number (Figure. 11-7) and battery serial number (Figure. 11-8) on the user manual's last page in case of stolen or missing.

6. You are ready to ride!







# Display Instrument Setting

## Presentation of Screen




- Speed: Average SPEED/MAX SPEED
- Speed unit: KMH/MPH
- Battery level: 5 levels, voltage interval could be customized
- Head light icon : indicates when head light and back light are on (No backlight function for this bike).
- Error code : ERROR and code when there is error
- Assist level : actual assist level 0~5, 0 –no assist
- Distance: TRIP/ODO

To turn the unit on, press and hold the “” button to light up the display. And long press again “” will turn it off. The display turns off automatically if there is no activity for five minutes (default).

## Display Setting

Short press the “” button to switch ODO/Trip.

Short press up or down button to change assist level, the default value is level 1.

Long press down button to enter walk assist mode, “” will show up on the screen.

# Troubleshooting

We fully understand your feelings when you meet a problem with the bike. Contacting us on the website where you bought the bike and telling us your problem in detail with some pictures and videos will be the fastest and easiest way to help you solve the problem. Please don't forget to leave your order number to us for reference.

The following are some assist tips for electrical problems:

## The display can not light up

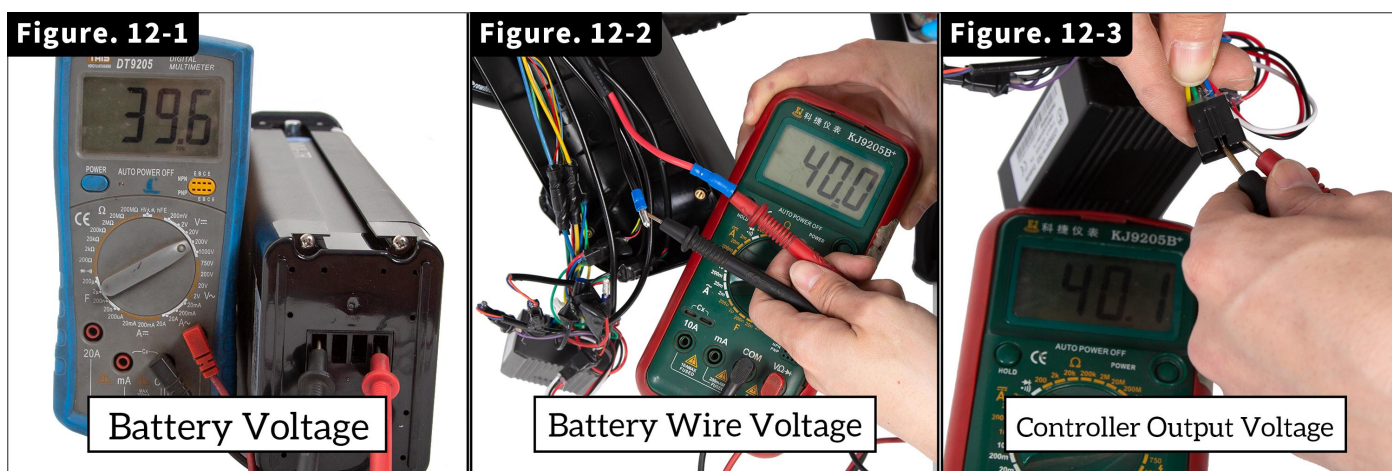
Please fully charge the battery (6-8 hours). The LED on the charger should be green color when the battery is full charged.

If it still doesn't work, please check the wires and battery, please make sure the connections are not loose, and the battery installs in place, then please light up the display in the correct order (light up the power button on the battery, press the "6km" button, and hold).

If it still doesn't work, we need to get a voltmeter, and do some testing:

First, please light up the power button, and test the battery output voltage (Figure. 12-1). If the voltage is "0", it means there is something wrong with the battery output plug, cell, or fuse. Please take a picture or a video to show your testing result, and then send it to us. The customer service department will give you a solution. If the battery voltage is not "0", but less than 42V, please full charge the battery (6-8 hours), then test it again; if the battery voltage is between 42-54v, but the display can not be light up, it means the battery is in good condition, we need to test the other two plugs.

Second, please open the controller box, and find the power wire (black and red color) that connecting the battery and controller (Figure. 12-2). Please test the power wire's voltage. If it is "0", it means the power wire needs to replace, please take pictures, and send the pics to us. If the voltage is the same as the battery, there's no problem with the power wire. We need to test the output voltage of the controller. It is the plug that connects the controller and display. It has five wires on the plug, please test the red and black wires (Figure. 12-3). If the voltage is "0", it means the controller needs to be replaced, please take some pictures and send them to us; if the voltage is the same as the battery, it means the display needs to be replaced. Please picture the testing results and send them to us. It will help us for solving your problem asap.



## The throttle does not work

We mean the display can be lighted up, but the throttle does not work. The brakes have two functions when you press the brake lever: 1. it will stop the bike 2. it will cut the power of the motor.

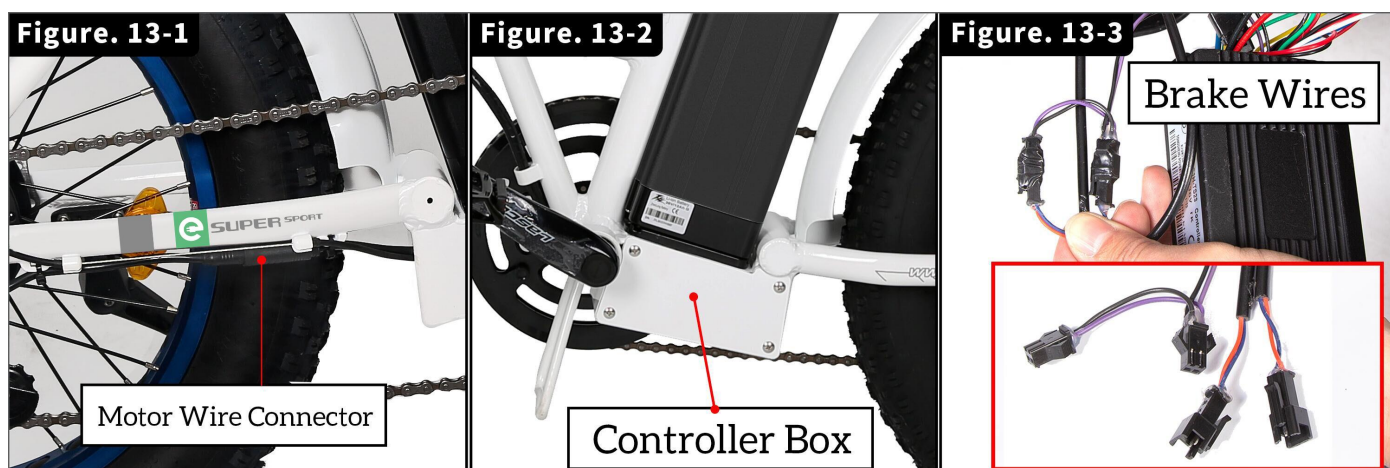
**First**, please check the brake lever, and make sure the brake lever can hold or release fluently. If not, maybe the brake cut the power. Please video your problem and send it to us. We will give you a solution.

**Second**, Please test the pedal assist mode (please lift the rear wheel, then turn the crank a whole cycle), and walk assist mode (press the “down” button and hold 3 seconds). If only the throttle does not work, it means the throttle needs to be replaced. Please video your testing and send the video to us. If none of the three modes works, we need to test the motor wire and brake sensor.

**Third**, please find the plug on the motor wire (Figure. 13-1), the connection may loose. Please re-plug it, restart the bike, and then test all three modes, if it still doesn't work, we need to check the brake sensor.

**Fourth**, please open the controller box (Figure. 13-2), and find the two plugs that connect the brake levers and controller. It is the only two plugs that have two wires on each plug (Figure. 13-3). Please disconnect them, then test all three modes again. If they work, it means the brake sensor is defective. The brake wires need to be replaced. If it still doesn't work, it means the controller needs to be replaced. Please video your problem, and send the video to us.

If it still doesn't work after replacing the brake wire or controller, please video how you do the troubleshooting, and send the video to us.



## Error Codes

When something goes wrong with the system, an error code will flash on display. Check the details on the attached list.

**Please note:** The motor will stop working in the event of an error. Only when the error is gone, the motor will work again. Please send us a pic to show the error code. It will help us a lot in solving your problem as soon as possible.

### Error Codes:

Error code	Definition
0	Normal
2	Short circuit protection of motor
3	Controller error
4	Throttle error
5	Motor error
8	Low battery level
9	High battery level
10	Motor Hall sensor error
30	UART receive error

CODE 0: Normal.

ERROR 02: The controller or motor needs to replace.

ERROR 03: The controller needs to replace.

ERROR 04: Turn the throttle in the opposite direction. Maybe the throttle does not return to the original position. If still not solved, the throttle needs to replace.

ERROR 05: Replace the controller or motor.

ERROR 08: Please fully charge the battery until the LED on the charger turns to green color (6-8 hours); if still not solved, please test the output voltage of the battery, and send us a pic to show your result.

ERROR 09: Please test the output voltage of the battery, and send us a pic to show your result.

ERROR 10: Please find the plug that connects the controller and motor, please re-plug it, maybe the connection is loose; if still not solved, please video your problem and send your video to us.

ERROR 30: Replace the controller or display

# Warranty Information

The warranty covers items that fail when used within their normal operating parameters. Please provide the order number when you need warranty. This warranty applies only to the original registered owner of the bicycle and is not transferable.

If any part happen to be damaged during shipping, please contact us immediately after shipment arrival. We will send a replacement part at our expense and will work with you to fix the issue.

## Situations that are not covered by warranty

- Water Damage (wading in the water, parking in the rain)
- Refit (refit the motor, electrical system, battery, frame, fork, etc. without our authorization)
- Overloading (Riding on steep slope/load more than maximum load)
- Artificial damage (incorrect installation/usages)
- Uncontrollable factors (Crash, falling, stolen, etc.)
- Improper use (Abusive use the bicycle in off-road terrain, mud, water, gravel or jumping from ramps, stairs or elevated ramps, or using the bike at an altitude higher than 6562 feet )
- Damages caused by natural disasters (such as earthquakes, lightning, fire, flooding and other hazards).
- Use of other components (such as charger, battery, display, or controller, **it may result in fire or death**)
- Acts in violation of laws
- Never registered your ebike or cannot provide the order number

## 18 months Limited Warranty Components(In the period of 18 months from purchase by Official Authorized Store)

- **Frame** – are warranted to be free from defects in material or workmanship for 18 months from purchase by Official Authorized Store. Paint finish is considered consumable and is not part of the warranty.
- **Motor, Display, Controller and Motor Assembly** – are warranted to be free from defects in material or workmanship for a period of 18 months from purchase by Official Authorized Store.
- **Original Battery** – are warranted to be free from defects in material or workmanship for a period of 18 months from the date of purchase as follows: full replacement during the first 12 months, while replacements needed during months 13-18 are prorated.

## Exclusions:

The warranty does not cover components subject to wear: Tires, inner tubes, brake lines, brake pads, wheel lining tape, fuses, etc. The other parts are Normal wear parts which are excluded from this warranty.

**Please note that for warranty issues, the customer is responsible for the cost of labor to install warrantied components.**

# Return Policy

1. Electric Bicycle Return Policy allows you to return or exchange your electric bicycle once within 30 days start from the date of receiving the bike. Please check the warranty terms for complete information for when a return is applicable. Please note that we do not accept the return of the spare parts. If you insist on returning it, you need to bear a 50% restocking fee of the original price.

2. Ship-back charge:

A.If the unit purchase under a free-shipping promotion, there will not be a refund for shipping cost. However, the customer will have to bear the 20% restocking fee of the original price if the return is unrelated to quality, damages, or wrong item but merely for a personal and discretionary last-minute decision from the buyer.

B.If you need the pick-up service, please tell us, and we will arrange a return label with the pick-up fee for you, but the customer will need to pay for this pick-up fee.)

3. The returned unit must be in like-new condition, include all original packaging, accessories, and documentation. Any missing components may be deducted from the refund. Any shipping damage during the ship-back may incur a deduction from the refund.

4. Returned units are subject to a 20% of inspection and restocking fee from the original purchase price.

5. The refund will be issued in an average time frame of 2-3 weeks after we are receiving, inspecting, and processing the returned unit.

6. If the customer wants to cancel the order after the shipping label being created, the customer will have to bear the shipping cost.

**Please note:** Buyer is required to get the packing box, pack the bike, and take the bike to UPS/FedEx Store when the buyer wants to return the bike. (Please keep the original box in case of returning if necessary). We cannot accept your return request if you bought the bike for more than 30 days, but we will keep providing our best customer service.

If the buyer picks up the bike locally, the buyer is responsible for carrying the bike back to our warehouse.

If you buy the bike in the USA, but use it in the other country or Hawaii, Alaska, or Puerto Rico, PO Boxes/APO's is out of our delivery range. The buyer is responsible for returning the bike to the original shipping address.

# FAQ

## **Q: How does after-sale customer service/ warranty work?**

**A:** When you have problems with your bike, please message us on the website where you bought the bike. We will reply to you in one business day. It is best to describe your problem in details, and make a video to show your concern, it is the fastest way to solving your problem.

Example: My bike does not work. The customer should tell us that the display can be lighted up, but the throttle does not work. (Please tell us the detail of the problem. For example, the display is light up, but the throttle doesn't work.) When you have electrical problems, the first thing we want to know is the display can be lighted up or not, (The condition of the display will help us to distinguish how to solve the electrical problems), then please provide more details about how it happens and the symptom of the problem. We will report your problem/video to our technician team, and give you a solution. If your bike is under warranty, we will arrange spare parts from our warehouse in the USA.

## **Q: I'm tech inclined and think I can fix it myself, does that void the warranty if I do?**

**A:** No, we always like to work with and support customers who are resourceful enough to fix an issue on their own, and we will provide plenty of tech support over email to guide you through the process. It saves wasted time and expense in shipping and it can be a useful and fun learning process. Please contact us before attempting a DIY repair, however, as some things have non-obvious complications.

## **Q: Why is the charger hot?**

**A:** When the battery is charging, it is normal that the charger is getting hot, because part of the energy is converted into heat energy when converting AC to DC. As long as there's no smell, you don't need to worry about it. However, it's better to put it in a ventilated place, because the heat will accelerate the aging of electronic components

## **Q: What is the range of this bike?**

**A:** We try to give an exact number, but the range is related to the road conditions, rider's weight, wind resistance, ramp or not, and how you ride the bike. We test the bike on the city road, (slight wind, flat highway, rider 160lbs, throttle, and pedal assist), the range is 20 miles. Suppose you can ride 16-23 miles. It is normal. Full charging the bike, and pump up the tire full will increase range.

## **Q: Can I ride the bike in the rain?**

**A:** Yes, ride the bike in moderate or light rain is no problem. Please make sure the bike is bone dry before next riding, or the bike will cut-off randomly. But do not park the bike in rain and never wading in water. The battery and controller have a self-protection program, they will cut the power if there is a short, but water damage will destroy the bike's electrics.

## **Q: What is the most important thing for maintaining battery**

**A:** Remember to charge the bike in time, and not leave the bike with an empty battery. Remember to charge the battery every 2 months if you do not use it for a long time, or the battery will starve to death as no power. It will result in a short-range or display can not light up.

## **Q: Do you have spare keys for the E-bike?**

**A:** Sorry, we do not have spare keys, but spare lock-set. You should replace the whole lock set if you lost the keys. Remember to keep a copy of the key if necessary.

# Battery And Charger Care

The charger will charge a fully depleted battery in 6—8 hours. The indicator light on the charger will be red when the battery is charging and will turn green when fully charged.

Avoid subjecting the battery to high temperatures, such as directly under the sun, for prolonged periods.

Recharge the battery before it becomes completely discharged. Completely discharging will reduce the numbers of recharging cycles during the battery's life and limit the capacity. Never store the battery in a discharged state. After much use, your battery's charge-holding capacity will decrease. If you find that your battery does not hold a sufficient charge, you should contact us to order a replacement.

If the battery is not used for an extended period, charge it fully and recharge it every two months. Store it in a cool, dry place. Your battery is engineered with precision for high capacity and a long, useful life. Please do not use it to power other electrical devices. Improper use of the battery will damage the battery and shorten its useful life and may cause fire or an explosion. If you experience unusual sounds or odors coming from the charger or the battery, unplug the charger immediately and contact customer service.

## Recharge the battery after every use.

- Do not disassemble or alter the battery or battery charger.
- Do not place the battery near fire or corrosive substances.
- Please do not charge the battery indoors.
- Do not allow any liquids on or inside the battery/charger.
- Do not expose the battery/charger to extreme weather conditions.
- Do not operate the battery/charger if damaged.
- Recharge the battery only with a charger specified by the manufacturer.
- Do not use the battery/charger for any use other than its intended purpose.
- Only use the battery/charger on approved products.

Please instruct your children to keep away from the charging place.

<b>WARNING</b> RISK OF FIRE NO USER SERVICEABLE PARTS		<b>AVERTISSEMENT</b> RISQUE D'INCENDIE AUCUNE PIÈCE RÉPARABLE PAR L'UTILISATEUR
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# USER MAINTENANCE INSTRUCTIONS

## INSTRUCTIONS D'ENTRETIEN À L'INTENTION DE L'UTILISATEUR

Having an electric bike that breaks down or isn't running smoothly is a real pain. Here are few simple things you can do to avoid this and keep it running smoother for longer.

Electric bikes are bicycles that have additional technology to provide pedal assistance. Because they tend to get used so much more, and at greater average speeds, maintenance is a critical factor in keeping them running smoothly.

You don't need to have a fancy workshop, do these few simple things:

### **Bicycle maintenance**

Regularly check the significant touch point bolts for tightness – handlebars, seat rails, wheels etc. If any of these come off while riding, it can be dangerous! Riding with loose bolts can be an expensive and inconvenient repair.

Lube your chain regularly

Check tire pressures at least once a week. Pump up to the recommended pressures if needed.

Clean your ebike with a regular hose and / or bucket & brush. Avoid high pressure water systems as you don't want to get water in the electrics!

**Wiring.** Be careful not to knock your wiring, particularly on things such as lights, motor cables near wheels, sensor cables etc

**Batteries.** See our article on battery care and safety. Also, take care of sliding your battery in and out, so you don't bend any battery plate nodes.

The next best thing you can do for your ebike is to get it serviced regularly by a skilled mechanic - preferably one with experience working on electric bikes! Find or avoid problems before they happen.

### **MOVING AND STORAGE INSTRUCTIONS**

#### **INSTRUCTIONS VISANT LE DÉPLACEMENT ET L'ENTREPOSAGE**

There is very little to do in terms of electrics maintenance however the main thing is to take care! Particularly when you are moving your ebike in and out of cars, stairs or tricky storage places.

Prolonged Exposure to UV Rays, Rain and the Elements May Damage the Enclosure Materials, Store Indoors When Not in Use.

# Safety

## Helmet:

Always wear an approved helmet while riding your bike and follow the helmet manufacturer's instructions for it, use and care of your helmet. It is your responsibility to familiarize yourself with the laws of where you ride your Bike and comply with all applicable laws.



## Mechanical Safety Check:

Check the condition of your Bike before every ride. Make sure no nuts, bolts or fixing are loose, with particular attention to the axle nuts and handlebar stem. Make sure the tires are correctly inflated with the recommended air pressure that locates on the side wall of every tire. Check the brakes for proper operation. You must take your bike in to be serviced and checked by a qualified bike mechanic before 100 miles (161 kilometers) of riding. This is a standard good practice for any new bike as cables will stretch, and components will "bed in". The service must include spokes tension for both front and rear wheels.

## Your First Ride:

When you buckle on your helmet and go for your first ride, be sure to pick an area away from cars, other cyclists, obstacles, or other hazards to become familiar with the controls, features, and performance of your new Bike.

## General Operating Rules:

When riding, obey the same road laws as all other road vehicles as applicable by law in your area.

- Ride predictably, in a straight line, and with the flow of traffic. Never ride against traffic.
- Concentrate on the path ahead. Avoid potholes, gravel, wet or oily roads, wet leaves, curbs, train tracks, speed bumps, drain gates, thorns, broken glass, and other obstacles, hazards, and puncture flat risks.
- Expect the unexpected such as opening car doors or cars backing out of driveways.
- Be careful at intersections and when preparing to pass other vehicles or other cyclists.
- Familiarize yourself with all the features and operations of the bike. Practice and become proficient at shifting gears, applying the brakes, using the power assist system, and using the throttle in a controlled setting before riding in riskier conditions.
- Wear proper riding clothes including closed-toe shoes. If you are wearing loose pants, secure the bottom using leg clips or elastic bands to prevent them from being caught in the chain or gears. Do not use items that may restrict your hearing.
- When braking, apply the rear brake first, then the front brake. If brakes are not correctly applied, they may lock up, you may lose control, and you could fall.
- When the gear shifter is on 7, it will bring a faster speed when you add more effort for pedaling. On a flat road, the gear shifter can be adjusted to 7 to obtain a faster speed.
- When the gear shifter is on 1, it will be easier for pedaling, but the speed will be slower. The derailleur can be adjusted to 1 so that the rider can easily climb uphill.
- It should be noted that the speed of the bicycle can be increased through the adjustment of the transmission, but you must not blindly increase the speed and ignore your own safety. Cycling is a good sport, but you must pay attention to safety.

- Off-road riding requires close attention and specific skills, and it presents variable conditions and hazards. Wear appropriate safety gear and don't ride alone in remote areas. Check local rules and regulations about whether off-road ebike riding is allowed.

### **Wet Weather:**

It is recommended to not ride in wet weather if avoidable. If you had to ride in wet weather, please pay attention to the following:

- Before riding, check whether the various functions of the bicycle can work normally, especially the brakes.
- In wet weather you need to take extra care when operating this bike.
- Decrease riding speed to help you control the bike in slippery conditions.
- Brake earlier since it will take longer to slow than when operated in dry conditions.
- Take care to be more visible to others on the road. Wear reflective clothing and use approved safety lights.
- Road hazards are more difficult to see when wet, proceed with caution.

### **Night Riding:**

It is recommended to not ride at night if avoidable. If you had to ride at night, please pay attention to the following:

- Wear reflective and light-colored clothing.
- Slow down and use familiar roads with street lighting, if possible.
- Ensure tire wall, pedal, and other reflectors are installed and unobstructed.
- Ensure the bike is equipped with head and tail lights and works properly.

### **Additional Passengers:**

The Bike bikes are designed for one passenger only (excluding Tandems). DO NOT carry any additional passengers on the front or rear of the bike.

### **Weight Capacity:**

These Electric Bikes are designed with a maximum weight capacity of 200 pounds for all models. The rear rack maximum weight capacity of a Bike (if applicable) is 25 pounds. Exceeding the maximum weight capacity can result in damage of the bike, which can lead to serious injury.

### **Tires & Wheels:**

Make sure tires are correctly inflated. Check by putting one hand on the saddle, one on the intersection of the handlebars and stem, then bouncing your weight on the bike while looking at tire deflection. Compare what you see with how it looks when you know the tires are correctly inflated; and adjust if necessary. Tires in good shape? Spin each wheel slowly and look for cuts in the tread and sidewall. Replace damaged tires before riding the bike. Are wheels true? Spin each wheel and check for brake clearance and side-to-side wobble. If a wheel wobbles side to side even slightly, or rubs against or hits the brake pads, take the bike to a qualified bike shop to have the wheel trued.

# General Warning

Like any sport, bicycling involves the risk of injury and damage. By choosing to ride a bicycle, you assume the responsibility for that risk, so you need to know — and practice— the rules of safe and responsible riding and proper use and maintenance. Proper usage and maintenance of your bicycle reduces the risk of injury.

Your electric bicycle is designed for use by persons 16 years old or older. Riders must have the physical coordination, reaction time and mental capability to ride and manage traffic, road conditions, sudden situations and respect the laws governing bicycle use where they ride, regardless of age. If you have an impairment or disability such as a visual impairment, hearing impairment, physical impairment, cognitive/language impairment, or a seizure disorder, consult your physician before riding any bicycle.

## A special note for parents

As a parent or guardian, you are responsible for the activities and safety of your child, and that includes making sure that the bicycle is properly fitted to the child; that it is in good repair and safe operating condition; that you and your child have learned and understand the safe operation of the bicycle; and that you and your child have learned, understand and obey not only the applicable local motor vehicle, bicycle and traffic laws, but also the common sense rules of safe and responsible bicycling. As a parent, you should read this manual, and review its warnings and the bicycle's functions and operating procedures with your child, before letting your child ride the bike.



Make sure that your child always wears an approved bicycle helmet when riding; but also make sure that your child understands that a bicycle helmet is for bicycling only, and must remove when not riding. A helmet must not be worn while playing, in play areas, on playground equipment, while climbing trees, or

While not riding a bicycle. Failure to follow this warning could result in serious injury or death.

Your electric bicycle is for use by persons 16 years old and older ONLY. **Do not let a child younger than 16 years old ride the bike.**

# AVERTISSEMENT GÉNÉRAL

Comme tout sport, le vélo comporte des risques de blessures et de dommages. En choisissant de faire du vélo, vous assumez la responsabilité de ce risque, vous devez donc connaître - et pratiquer - les règles d'une conduite sûre et responsable ainsi que d'une utilisation et d'un entretien appropriés. Une utilisation et un entretien appropriés de votre vélo réduisent les risques de blessures.

Votre vélo électrique est conçu pour être utilisé par des personnes de 16 ans ou plus. Les coureurs doivent avoir la coordination physique, le temps de réaction et la capacité mentale pour conduire et gérer la circulation, les conditions routières, les situations soudaines et également respecter les lois régissant l'utilisation du vélo là où ils roulent, quel que soit leur âge. Si vous avez une déficience ou un handicap tel qu'une déficience visuelle, une déficience auditive, une déficience physique, une déficience cognitive / du langage ou un trouble épileptique, consultez votre médecin avant de faire du vélo.

## Une note spéciale pour les parents

En tant que parent ou tuteur, vous êtes responsable des activités et de la sécurité de votre enfant, et cela inclut de vous assurer que le vélo est bien adapté à l'enfant; qu'il est en bon état et en bon état de fonctionnement; que vous et votre enfant avez appris et compris comment utiliser le vélo en toute sécurité; et que vous et votre enfant avez appris, compris et obéi non seulement aux lois locales applicables en matière de véhicules à moteur, de bicyclette et de circulation, mais également aux règles de bon sens pour une conduite sûre et responsable. En tant que parent, vous devez lire ce manuel, ainsi que ses avertissements et les fonctions et procédures d'utilisation du vélo avec votre enfant, avant de le laisser faire du vélo.

## AVERTISSEMENT

Assurez-vous que votre enfant porte toujours un casque de vélo approuvé lorsqu'il roule; mais assurez-vous également que votre enfant comprend qu'un casque de vélo est uniquement destiné à la bicyclette et doit être retiré lorsqu'il ne roule pas. Un casque ne doit pas être porté en jouant, dans les aires de jeux, sur les équipements de jeux, en grim pant aux arbres, ou à tout moment sans faire de vélo. Le non-respect de cet avertissement peut entraîner des blessures graves ou la mort.

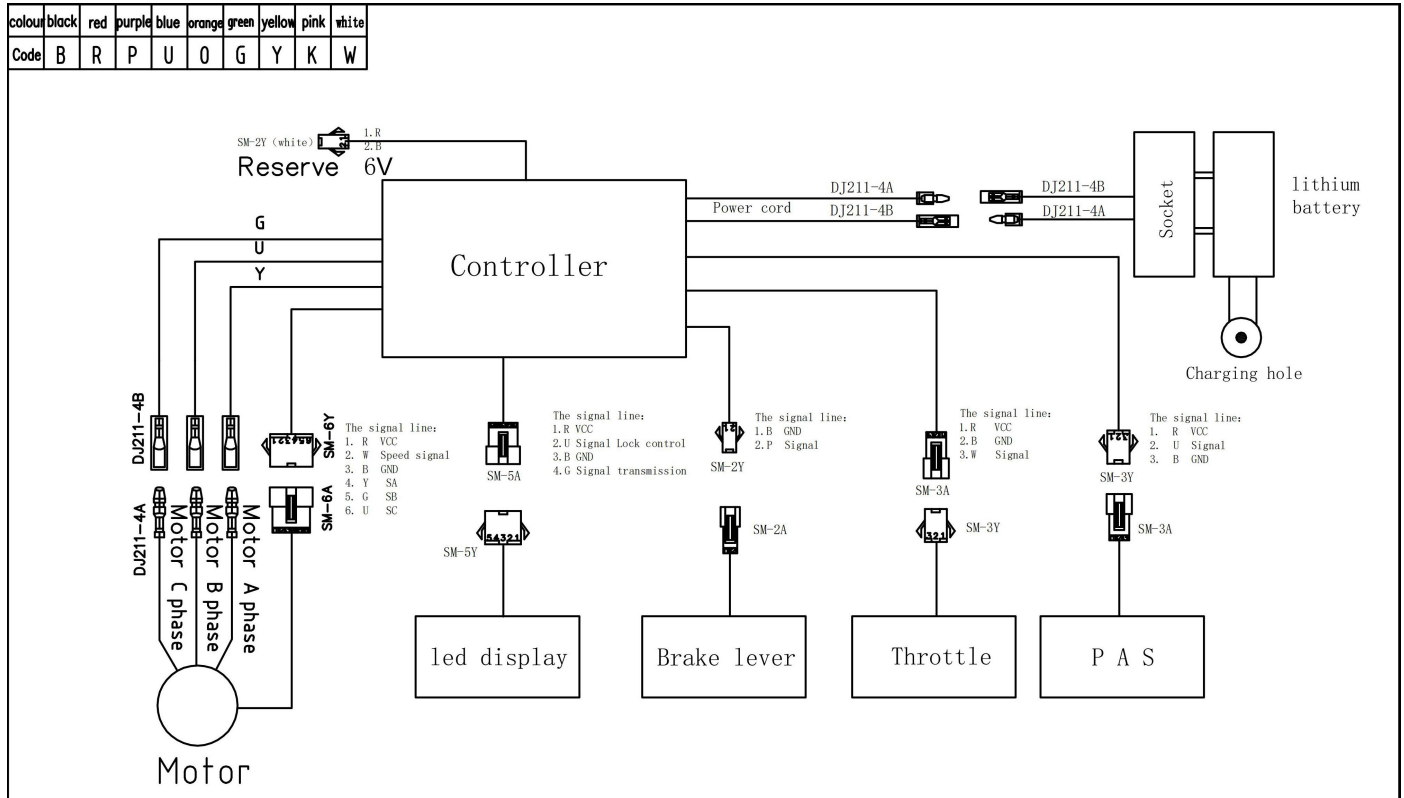
Votre vélo électrique est réservé aux personnes de 16 ans et plus. Ne laissez pas un enfant de moins de 16 ans faire du vélo.

# Electrical Parameters

Model	FAT20S900-MB-XXX FAT20S900-MBL-XXX FAT20S900-CM-XXX (XXX represents any alphanumeric character)
Motor	48V 500W
Type of Motor	Brush-less Hub Motor
Battery	48V13AH
Type of Battery	Li-ion Battery
Charging Temperature Range	32-104°F
Discharge Temperature Range	14-113°F
Charger Output	54.6V DC MAX. 2.0A
Range Per Charging	18-23 miles
Maximum Speed	20 MPH
Maximum Loading	200 LBS
Dimensions	69.6x45.2x24.4 inch
Folding Dimensions	39.3x16.5x27.6 inch
Weight	52 LBS
Maximum Elevation	6562 feet
Storage Temperature Range	14-113°F

# The Universal Wiring Diagram

This wiring diagram is only for reference, if any question you have, please contact customer service for any repair.



## Recording Your Bike Info

BICYCLE SERIAL NUMBER: \_\_\_\_\_

BATTERY SERIAL NUMBER: \_\_\_\_\_

MODEL: \_\_\_\_\_

COLOR: \_\_\_\_\_

DATE OF PURCHASE: \_\_\_\_\_

DEALER'S NAME: \_\_\_\_\_

DEALER'S PHONE: \_\_\_\_\_

DEALER'S EMAIL: \_\_\_\_\_